

Baltimore's Forecast – A Lot Hotter, Somewhat Wetter, and Preparing for Both: The Baltimore and Maryland Strategies for Climate Change

Clifford S. Mitchell, MS, MD, MPH
Director, Environmental Health Bureau
Prevention and Health Promotion Administration

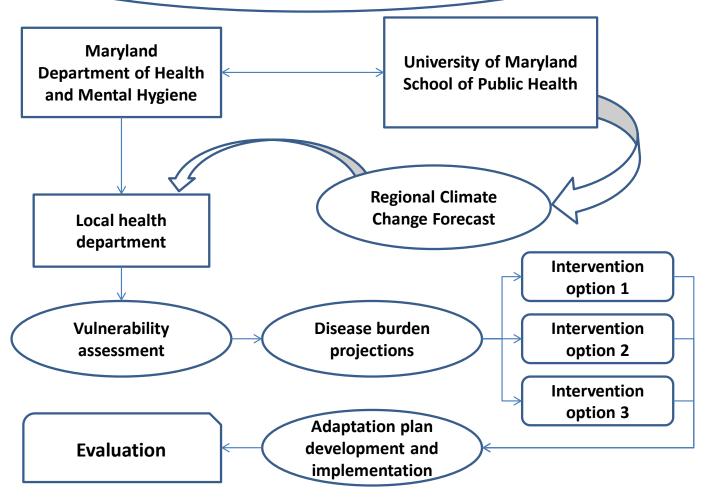
September 17, 2014 Baltimore, MD

Goals of Meeting

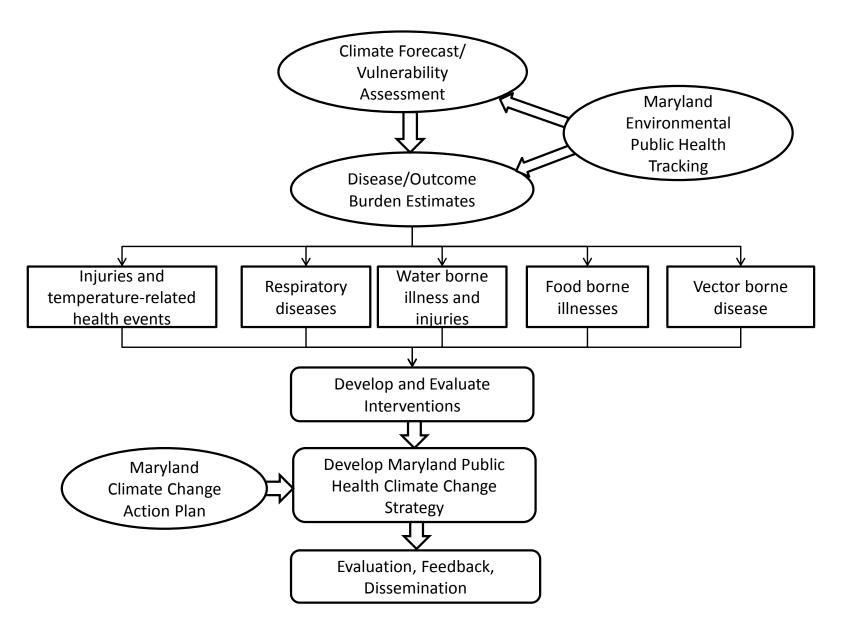
- Recap of the project goals and current status
- Discuss what Baltimore City should expect from DHMH
 - Types of products
- Review climate forecasts and health data
- Discuss set priorities for composing interventions



Maryland Public Health Climate Change Strategy









Goals	Objectives	Timeline	Performance Metric(s)
1. Prepare a Climate	1.1 Prepare climate forecast	9/1/2012 —	Forecast products for selected
Forecast and		8/31/2013	regional, local jurisdictions
Vulnerability Assessment	1.2 Vulnerability assessment	11/1/2012 — 8/31/2013	Mapping of vulnerable populations, quantitative vulnerability assessment
2. Project Disease/	2.1 Injuries and Temperature-	9/1/2013 —	Metrics for each selected
Outcome Burden	Related Health Events	3/31/2014	disease or outcome
	2.2 Respiratory Diseases		
	2.3 Water Borne Illness		
	2.4 Food Borne Illness		
	2.5 Vector Borne Disease		
3. Develop and	3.1 Develop interventions	1/1/2014 —	Detailed written description of
Evaluate Public Health	_	8/31/2014	interventions
Interventions	3.2 Assessment of public	3/1/2014 -	Formal health impact
	health interventions using	2/28/2015	assessment of strategies/
	health impact assessment		interventions
	framework		
4. Develop Maryland	4.1 Develop written strategy	3/1/2015 -	Strategy document
Public Health Climate	document within Maryland	8/31/2015	
Strategy	Climate Change Action Plan framework		
	4.2 Obtain feedback from key	9/1/2015 —	Written feedback incorporated
	stakeholders	2/29/2016	in strategy document
	4.3 Adopt and promulgate	3/1/2016 —	Promulgation on DHMH
	strategy	8/31/2016	website, other media
5. Evaluation of	5.1 Develop evaluation	9/1/2014 —	Evaluation using criteria
Maryland Public	framework using common	8/31/2016	adopted by DHMH, Maryland
Health Climate Change	evaluation tools and		Climate Change Commission
Strategy	framework		



Local Public Health Department Mini-grants

- Enable public health professionals in local health departments (LHDs) to utilize climate forecast projections
- Help LHDs implement climate mitigation and/or adaptation strategies necessary to protect public health
- Evaluate the mitigation and/or adaptation strategy used to determine the quality of improvement and to incorporate refined inputs



Local Public Health Department Projects

- Interim Reports due June 30, 2014
- Health Departments Involved
 - Baltimore City
 - Prince George's County
 - Washington County
 - Wicomico County



Local Priorities

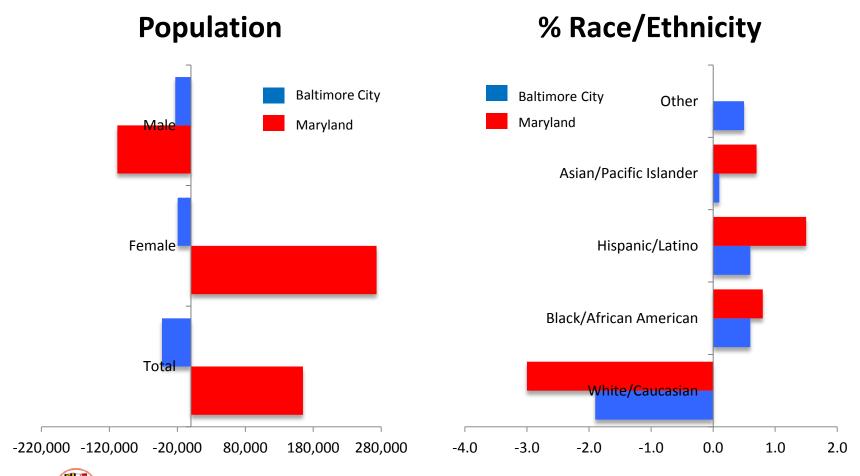
- Promote Access to Quality Health Care for All
- Be Tobacco Free
- Redesign Communities to Prevent Obesity
- Promote Heart Health
- Stop the Spread of HIV and Other Sexually Transmitted Infections
- Recognize and Treat Mental Health Needs
- Reduce Drug Use and Alcohol Abuse
- Encourage Early Detection of Cancer
- Promote Healthy Children and Adolescents
- Create Health Promoting Neighborhoods



Provided by Ann Liu, PhD, MPH

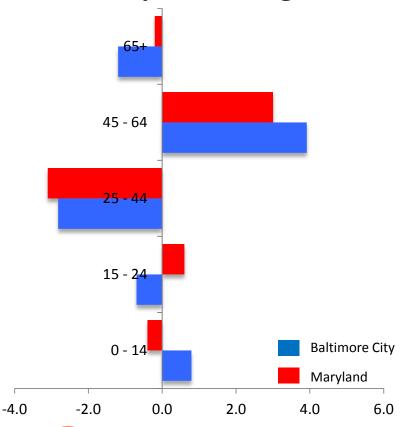
BASELINE HEALTH STATISTICS



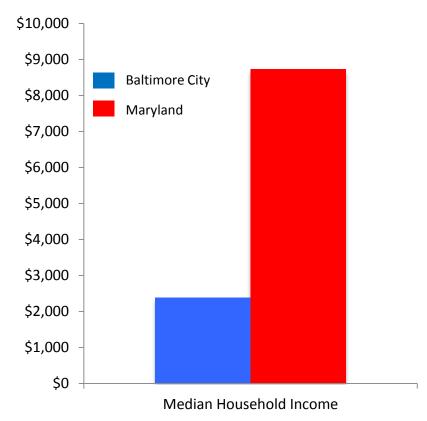




% Population Aged



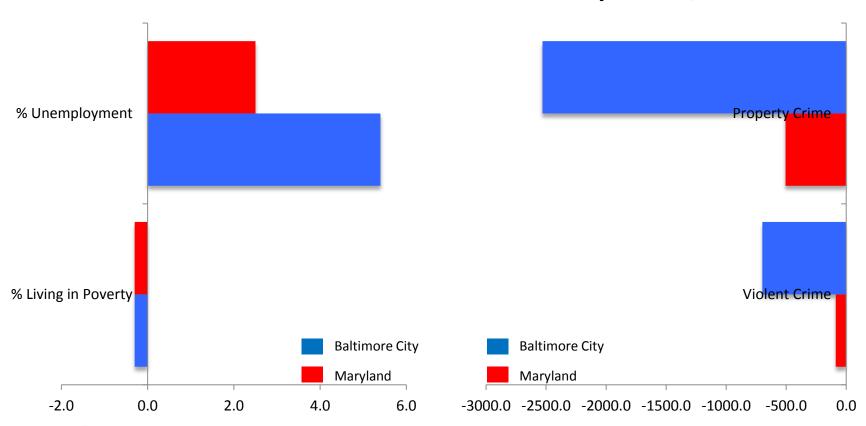
Household Income



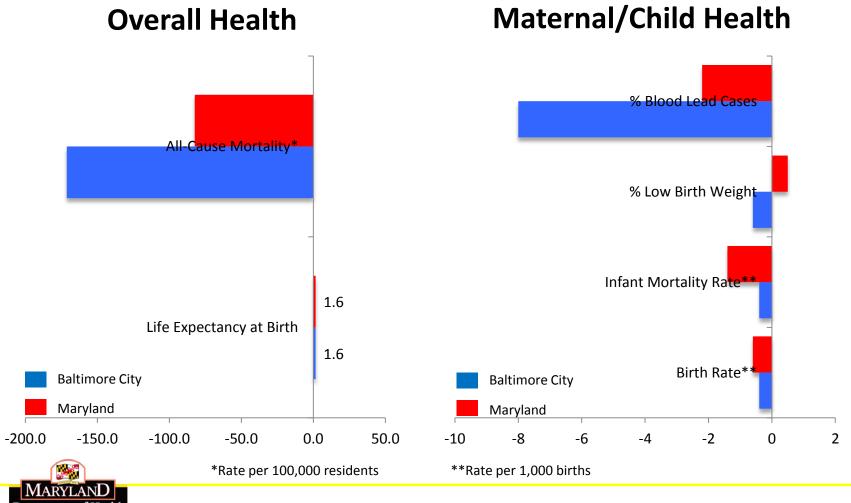


Socioeconomic Status

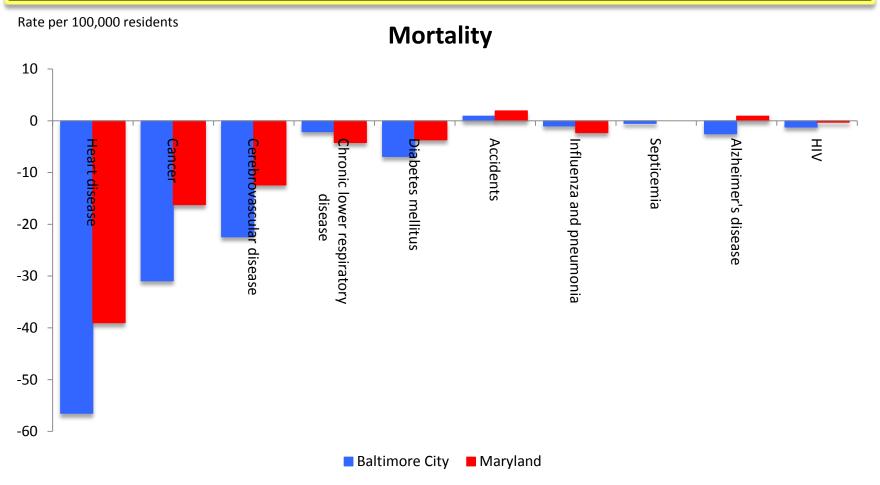
Crime Rate per 100,000 residents



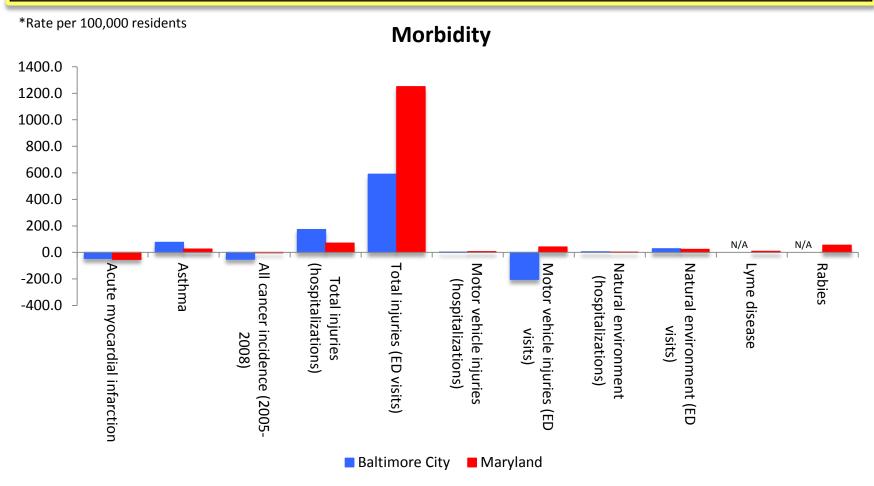




and Mental Hygiene







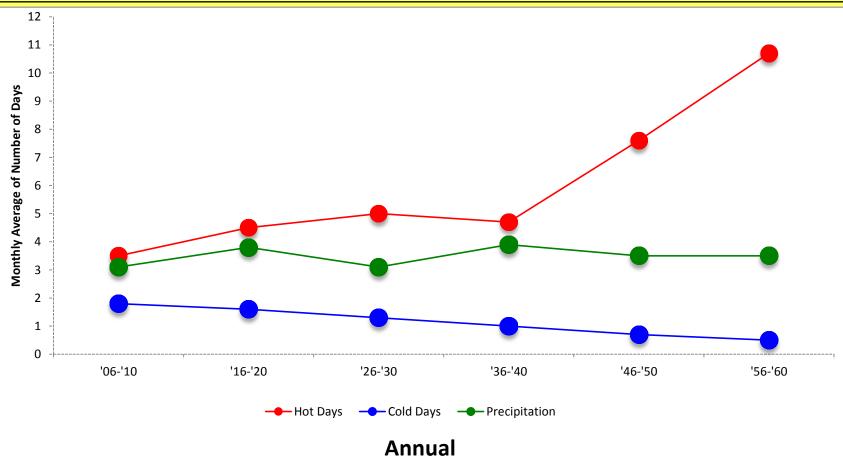


Provided by University of Maryland School of Public Health Amir Sapkota, PhD Chengsheng Jiang, PhD

CLIMATE CHANGE FORECASTS

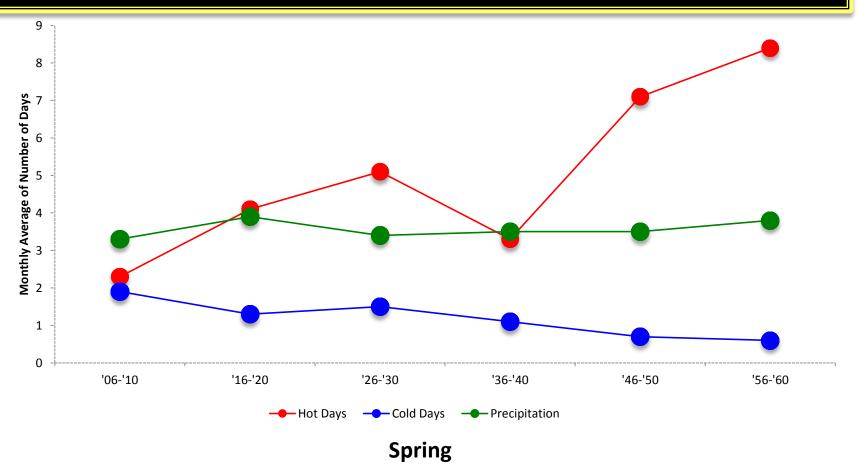


Climate Forecasts (10th Percentile)

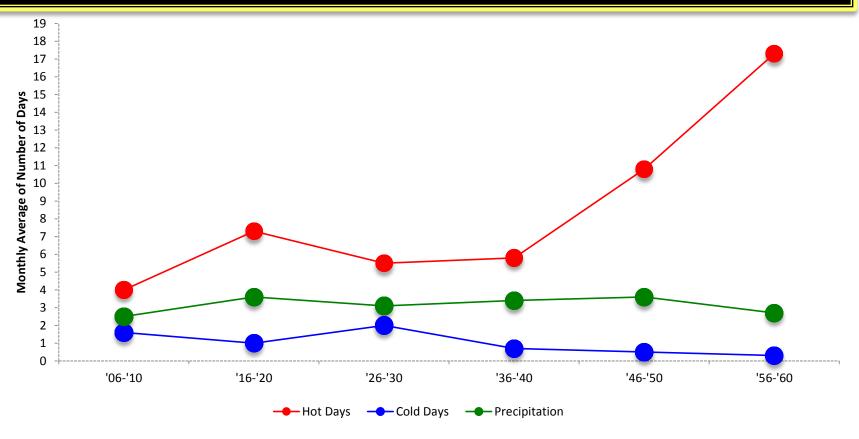






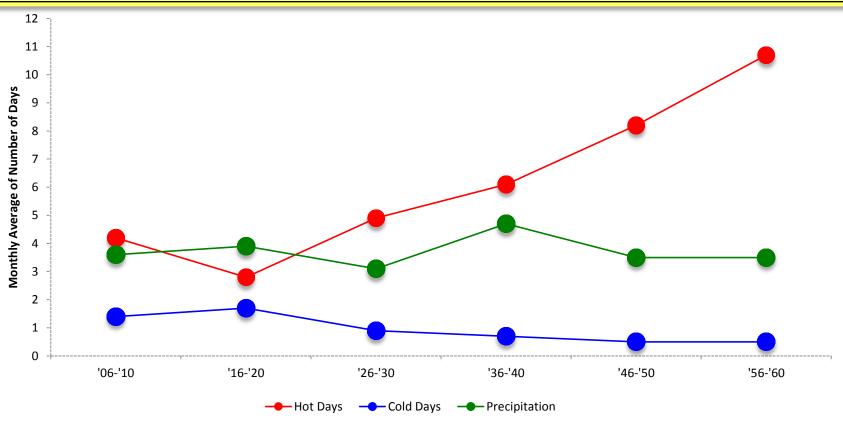






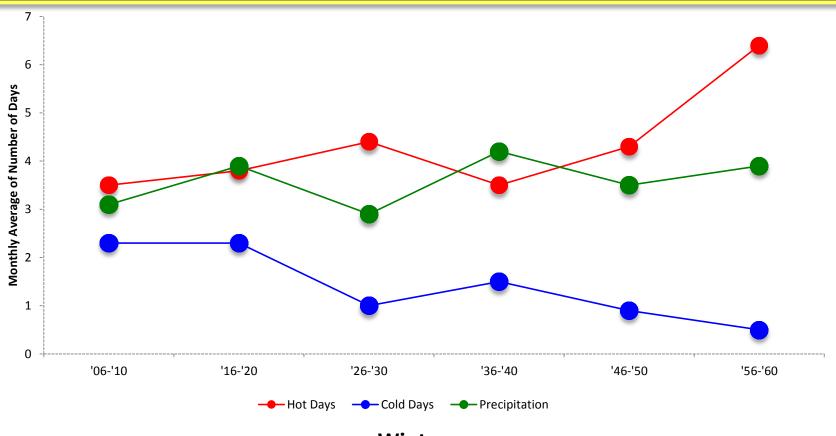
Summer















PUTTING IT ALL TOGETHER



Distributions of Yearly Extreme Events from 1979 to 2060

- In what way can the data be used to develop a set of priorities and interventions based on those priorities?
- What is the process by which Baltimore City can complete the objectives?
- Who are some community partners that are:
 - 1. Interested in climate change
 - 2. Vulnerable populations that lack foresight
 - 3. Health cares systems and health providers
 - 4. Business community
 - 5. Academic community



Timeline

October '14

January '15

April '15

Title

July '15

Title

- List of activities
- Bullet 1
- Bullet 2
- Bullet 3
- Bullet 4

- Outcome 3

- **Title**
- List of activities
- Bullet 1
- Bullet 2
- Bullet 3
- Bullet 4

- List of activities
- Bullet 1
- Bullet 2
- Bullet 3
- Bullet 4

- **Title**
- List of activities
- Bullet 1
- Bullet 2
- Bullet 3
- Bullet 4

- Outcome 1
- Outcome 2

- Outcome 1
- Outcome 2
- Outcome 3

- Outcome 1
- Outcome 2
- Outcome 3

- Outcome 1
- Outcome 2
- Outcome 3



Closing Remarks

Thank you!

